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ATTORNEY DOCKET NO. CONFIRMATION NO. 103213-00060 7494

7590

FILING DATE

10/24/2003

EXAMINER

ARENT FOX KINTNER PLOTKIN & KAHN, PLLC

10/11/2005

BRINSON, PATRICK F

Suite 600

APPLICATION NO.

10/691,547

1050 Connecticut Avenue, N.W. Washington, DC 20036-5339

ART UNIT PAPER NUMBER

3754

DATE MAILED: 10/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

FIRST NAMED INVENTOR

Yoshiyuki Sumitomo

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Office Action Summary Examiner		Application No.	Applicant(s)			
Petrick F. Brinson 3754 Petricd for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION Exercises to Monthly by the seminary date of this communication of the seminary date of this communication. 18 No period for reply is specified above, the maining date of this communication. 18 No period for reply is specified above, the maining date of this communication. 19 No period for reply is specified above, the maining date of this communication. 19 No period for reply is specified above, the maining date of the communication. 19 No period for reply is specified above, the maining date of the maining date of this communication. 19 No period for reply is specified above, the maining date of the communication of the		10/691,547	SUMITOMO, YOSHIYUKI			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address − Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of them may be available used the provided of 37 CFR 1:366, in no event, however, may a reply be limely filed with 10 kg (s) MONTHS from the mailing date of this communication of 37 CFR 1:366, in no event, however, may a reply be limely filed with 10 kg (s) MONTHS from the mailing date of this communication. Fallutes the reply within the safe or exciteded period for reply will, by statule, cause the application for section 48 ANDENGE (53 ts.C. 6, 133). Any reply received by the Office is set than these months after the mailing cate of this communication, even if timely filed, may reduce any event of period that apply and will expire 30 kg (s) ts.C. 6, 133. Any reply received by the Office is set than these months after the mailing cate of this communication, even if timely filed, may reduce any event of period that apply and the set of the period communication of the mail to communication of the mail to communication of the mail to communication of the set of the period of the	Office Action Summary	Examiner	Art Unit			
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Application/Control Number: 10/691,547 Page 2

Art Unit: 3754

DETAILED ACTION

1. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 4 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. 6,044,844 to **Kwok et al**.

The patent to **Kwok et al.** discloses a hose (18), figs. 4-6, of which a cross-sectional shape is seen in a plane perpendicular to an axial direction is rectangular and having linear projections (42, 44, 46) formed on the inner wall of the hose body along the axial direction. Though not drawn to scale, fig. 5 best discloses a gap between a top of the linear projection and a part of the inner wall opposite the linear projection that appears to fall within the range of 25% to 30% of the distance from the part of the inner wall on which the linear projection is formed to the part opposite the projection, as recited in claims 1 and 6. A cross-sectional shape of each linear

Art Unit: 3754

projection as seen in a plane perpendicular to an axial direction is trapezoidal, as recited in claim 4. **Kwok et al.** is silent as to the specific distance of the gap between the top of the linear portion and a top part of the inner wall opposite the linear projection. It would have been obvious to one having ordinary skill in the art at the time the invention was made to specifically set the range of the gap between the top of the projection and a part of the inner wall opposite the linear projection at 25% to 30%, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art.

3. Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Kwok et** al. in view of U.S. 4,867,485 to **Seckel**.

The patent to **Kwok et al.** discloses the recited structure, with the exception of disclosing the linear projections having a flat surface at the top. The patent to **Seckel** discloses a kink impeading hose including projections (20) formed in a trapezoidal cross-section and including flat surfaces (24). Absent any specific reasoning and/or advantage for the top of the projection being a particular shape, it would have been an obvious matter of design choice to form the tops of the projections of **Kwok et al.** with a flat surface, as suggested by **Seckel**, since applicant has not disclosed that the flat surface solves any stated problem or is for any particular purpose and it appears that the invention would perform equally well with a rounded top, wherein the

Application/Control Number: 10/691,547 Page 4

Art Unit: 3754

function of the projections in either reference is to prevent the hose from occluding, which would prevent the fluid from traveling through the tube. There is no probative evidence that a flat top projection is critical to the invention. Applicants have the burden of proving such criticality.

4. Claims 7 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. 4,257,422 to **Duncan**.

The patent to **Duncan** discloses a crush resistant fluid delivery hose having a substantially rectangular cross-section including projections (13 and 14) that are arranged such that their tops point toward each other. **Duncan**, like **Kwok et al.**, does not specifically disclose the distance of the gap between the tops of the projections. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the projections of **Kwok et al.** such that the gap between the opposing tops is in the range of 25% to 30%, more specifically 25% to 28% of the distance between parts of the inner wall on which the projections are formed, since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art.

Response to Amendment

5. Applicant argues that since the figures of the **Kwok** reference are not drawn to scale, and since the specification does not disclose any specific dimensions regarding

Art Unit: 3754

them, that any measurements of them cannot be used to reject the claims since each and every feature recited in the claims is not disclosed. Therefore the rejection has been withdrawn and an obvious type rejection has been made since it is clear from the figures that tops of the projections are indeed very close to the inner surface of the opposing wall, thus the gap between the top of the projection and the inner wall opposite the linear projection falls within a small percentage range. Since Kwok discloses the importance of providing the projections having their tops in a very close relationship to the opposite wall, it would be obvious to produce a flexible hose of rectangular cross section with projections that extend from one wall towards the other for preventing occlusion of the passageway with the gap between the projection top and the opposing wall specifically in the range of 25% to 30%, since it is known that discovering an optimum value of a result effective variable involves only routine skill in the art. Applicant has not provided any evidence that there is a patentable distinction between the recited 25% to 30% range gap than the gap shown by the **Kwok** reference. Likewise, the **Duncan** reference discloses the recited structure of opposing projections facing each other, but is silent as to the gap between the tops of each projection. Without the criticality and/or advantage of having the gap between the tops of the projections in the range of 25% to 30% of the inner walls from which they project being provided, it would be an obvious choice of design to specify such a

Application/Control Number: 10/691,547 Page 6

Art Unit: 3754

range for the gap between the two projections, wherein the structure is known in the art.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Patrick F. Brinson** whose telephone number is (571) 272-4897. The examiner can normally be reached on M-F 7:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Michael Y. Mar** can be reached on (571) 272-4906. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patrick F. Brinson Primary Examiner

Art Unit 3754

P. F. Brinson October 4, 2005